

**ANNA UNIVERSITY, CHENNAI**  
**AFFILIATED INSTITUTIONS**  
**M.E. ENGINEERING DESIGN**  
**REGULATIONS 2017**  
**CHOICE BASED CREDIT SYSTEM**  
**I TO VI SEMESTERS (PART TIME) CURRICULUM**

**SEMESTER I**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA5156	Applied Mathematics for Engineers	FC	4	4	0	0	4
2.	ED5151	Computer Applications in Design	PC	3	3	0	0	3
3.	ED5191	Engineering Fracture Mechanics	PC	3	3	0	0	3
<b>PRACTICAL</b>								
4.	ED5161	CAD Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>14</b>	<b>10</b>	<b>0</b>	<b>4</b>	<b>12</b>

**SEMESTER II**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	ED5251	Mechanisms Design and Simulation	PC	3	3	0	0	3
2.	ED5253	Integrated Mechanical Design	PC	3	3	0	0	3
3.	ED5252	Mechanical Behavior of Materials	PC	3	3	0	0	3
<b>PRACTICAL</b>								
4.	ED5211	Design Project	EEC	4	0	0	4	2
<b>TOTAL</b>				<b>13</b>	<b>9</b>	<b>0</b>	<b>4</b>	<b>11</b>

**SEMESTER III**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	ED5152	Quality Concepts in Design	PC	3	3	0	0	3
2.	ED5153	Advanced Finite Element Analysis	PC	3	3	0	0	3
3.		Professional Elective I	PE	3	3	0	0	3
<b>PRACTICAL</b>								
4.	ED5162	Advanced Analysis and Simulation Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>13</b>	<b>9</b>	<b>0</b>	<b>4</b>	<b>11</b>

**SEMESTER IV**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	ED5254	Vibration Analysis and Control	PC	3	3	0	0	3
2.		Professional Elective II	PE	3	3	0	0	3
3.		Professional Elective III	PE	3	3	0	0	3
<b>PRACTICAL</b>								
4.	ED5261	Vibration Laboratory	PC	2	0	0	2	1
<b>TOTAL</b>				<b>11</b>	<b>9</b>	<b>0</b>	<b>2</b>	<b>10</b>

**SEMESTER V**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	PD5091	Product Lifecycle Management	PC	3	3	0	0	3
2.		Professional Elective IV	PE	3	3	0	0	3
3.		Professional Elective V	PE	3	3	0	0	3
<b>PRACTICAL</b>								
4.	ED5311	Project Work Phase I	EEC	12	0	0	12	6
<b>TOTAL</b>				<b>21</b>	<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

**SEMESTER VI**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>PRACTICAL</b>								
1.	ED5411	Project Work Phase II	EEC	24	0	0	24	12
<b>TOTAL</b>				<b>24</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>

**TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE = 71**

**LIST OF ELECTIVES FOR M.E. ENGINEERING DESIGN****SEMESTER III (Elective I)**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ED5071	Optimization Techniques in Design	PE	3	3	0	0	3
2.	ED5072	Design of Pressure Vessel and Piping	PE	3	3	0	0	3
3.	ED5091	Design of Material Handling Equipments	PE	3	3	0	0	3
4.	CC5292	Additive Manufacturing and Tooling	PE	3	3	0	0	3
5.	ED5073	Information Analytics	PE	3	3	0	0	3

**SEMESTER IV (Elective II & III)**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ED5001	Plates and Shells	PE	3	3	0	0	3
2.	ED5002	Modal Analysis of Mechanical Systems	PE	3	3	0	0	3
3.	ED5003	Advanced Metal Forming Techniques	PE	3	3	0	0	3
4.	ED5074	Tribology in Design	PE	3	3	0	0	3
5.	ED5004	Surface Engineering	PE	3	3	0	0	3
6.	ED5092	Advanced Mechanics of Materials	PE	3	3	0	0	3

**SEMESTER V (Elective IV & V)**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ED5075	Design for Internet of Things	PE	3	3	0	0	3
2.	ED5005	Design of Hydraulic and Pneumatic Systems	PE	3	3	0	0	3
3.	ED5006	Bearing Design and Rotor Dynamics	PE	3	3	0	0	3
4.	ED5076	Product Design for Sustainability	PE	3	3	0	0	3
5.	ED5093	Computational Fluid Dynamics	PE	3	3	0	0	3
6.	CC5291	Design for Manufacture, Assembly and Environments	PE	3	3	0	0	3
7.	ED5077	Biomechanics	PE	3	3	0	0	3
8.	ED5078	Composite Materials and Mechanics	PE	3	3	0	0	3